



European Association of Cardiothoracic Anaesthesiology and Intensive Care (EACTAIC) Education Commitee Education Chair Prof. Mohamed R. El Tahan, MD Klinik für Anästhesiologie und Operative Intensivmedizin



Klinikdirektor Univ.-Prof. Dr. med. Mark Coburn

23. Dezember 2021

Prof. Dr. med.

Markus Velten

Geschäftsführender Oberarzt

Tel: +49 (0) 228 287-14116 Fax: +49 (0) 228 287-14125 markus.velten@ukbonn.de

Sekretariat

Natalie Dahmen

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Sekretariat

Carola Donnhof

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Universitätsklinikum Bonn Venusberg-Campus 1 Gebäude 22, 3- Etage. Raum 60 53127 Bonn

Application EACTAIC Cardioanaesth Fellowship

Dear Prof. El Tahan,

I am writing on behalf of the Department of Anaesthesiology and Critical Care Medicine.

Hereby I apply to become a certified training centre for the EACTAIC Cardioanesthesia Fellowship program. Our adult cardiac surgery programme is one of the decent Center in Germany. Due to the large number of the most complex cardiac surgeries we can insure a specific and most comprehensive education. As we are University Hospital we are also deeply involved in basic and clinical research as you can see from our publication record. Due to the large caseload, we are able to accept one fellow per training year so two fellows per year. We think that cardiac anaesthesia should not be trained in the OR only, but also include the areas of diagnostics and intervention like catheter lab, MRI, CT and Endoscopy. We guarantee a significant caseload including all state of the art procedures in this areas also. Currently, we have 12 full scale carfdiac anaesthesia consultants, 3 residents in training and medical students on a weekly basis in our section.

The cardiac surgery unit is also part of our department and fellowship training includes rotation. Accordingly, training can be guaranteed.







Please do not hesitate contacting me for further information. We are looking forward receiving your evaluation.

Yours sincerely,

Prof. Dr. med. Markus Velten

Harlus Collec







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Klinikdirektor

Univ.-Prof. Dr. med. Mark Coburn

Tel: +49 228 287-14111 Fax: +49 228 287-14115 mark.coburn@ukbonn.de

In order to fulfill the needs for training and education 1 guarantee that the programm leader Prof. Velten will have a minimum of 10% of weekly working time for training the trainees in the Fellowship and Exchange Training Programme of the EACTAIC.

Sekretariat

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Best Regards

Prof. Dr.med Mark Coburn

Ihr Weg zu uns auf dem UKB-Gelände:



WPAW33

Chirurgisches Zentrum (OPZ) / Geb 22







Dr. Mohamed El Tahan

Professor and Education Chair at the European Association of Cardiothoracic Anaesthesiology (EACTA)

Klinik für Anästhesiologie und Operative Intensivmedizin



Klinikdirektor Univ.-Prof. Dr. med. Mark Coburn

3. February 2024

y 2024

Prof. Dr. med. Markus Velten

Tel: +49 (0) 228 287-14116 Fax: +49 (0) 228 287-14125 markus.velten@ukbonn.de

Re: Resignation EACTAIC Fellowship Program Director

Dear Dr El Tahan,

Hopefully this email finds you well.

To begin with I would like to thank you for your support and our close cooperation on the EACTAIC fellowship program. Your outstanding contribution made it possible for Bonn to joining the group and establishing the prestigious EACTACI adult cardiac fellowship program at our institution. This would not have been possible for us without your contribution, advice, and most importantly your warm welcoming character. I admire your contribution to the program and am very thankful for all your support and getting you to know over the past years.

I regret to inform you that I accepted the position as Professor and Division Chief of Cardiovascular and Thoracic Anesthesiology at University of Texas Southwestern at Dallas and will leave the University Bonn and unfortunately your program by February 29th. With that said I would like to let you know that being part of the EACTAIC fellowship program and being allowed to serve this program as the fellowship program director meant a lot to me and leaving this is not easy.

Sekretariat

Natalie Dahmen

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However, the Program in Bonn has been established by various faculty that still provide an outstanding contribution without whom continuing would not have been possible.

I discussed the situation with Professor Coburn, the Chairman of the Department and he assured me the importance of the program to the entire institution and advised me to reaching out to you and guarantee his support to the program. Marc Rohner is an outstanding Faculty within the section of cardiac anesthesiology, served as my assistant over the last years and has all credentials, is EACVI certified, and contributed to the agenda you established within the program during your service. Therefore, we suggest Dr. Marc Rohner to become the new EACTAIC adult cardiac fellowship program director at the University Hospital Bonn. Professor Coburn assured to provide him his unrestricted support for this position.

Please don't hesitate contacting me for further questions.

Best wishes

Professor Dr. med. Markus Velten

Harlys Collece





European Association of Cardiothoracic Anesthesiology and Intensive Care (EACTAIC) Klinik für Anästhesiologie und Operative Intensivmedizin



9. Februar 2024

Klinikdirektor

Univ.-Prof. Dr. med. Mark Coburn

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Direktionsassistentin Melanie Müller

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Universitätsklinikum Bonn Venusberg-Campus 1 Gebäude 22, 3. Etage, Raum 60 53127 Bonn

EACTAIC Adult CTVA Fellowship Director Dr. Marc Rohner

Dear Prof. El Tahan, dear Mohamed,

I confirm to allocate a minimum of 10% of weekly working hours to Dr. Marc Rohner in his role as CTVA Fellowship Programme Director at Bonn University Hospital.

Yours sincerely

Márk Coburn

Univ.-Prof. Dr. med. Mark Coburn Direktor der Klinik für Anästhesiologie und Operative Intensivmedizin

> Ihr Weg zu uns auf dem UKB-Gelände:

WPAW33

Chirurgisches Zentrum (OPZ) / Geb 22





			Арріі	cation for Hosting EACTAIC Adult C	ardiothor	acic and vascular Anaestnesia F	ellowsnip Progi	amme			
1. Fellowship Information						Fellowship in Cardiothoracic and Vascu					
2. Institution Name	Advanced Fellowship in Cardiothoracic and Vascular Anaesthesia Dep. for Anesthesiology and Critical Care Medicine, University of Bonn										
Address		Iniversitätsklinikum Bonn (UKB) linik für Anästhesiologie und operative Intensivmedizin (KAI)									
		fenusberg-Campus 1									
Country	Germa	iny	City Bonn								
3. CEO / Chair Name	First name Email	Mark	Last name	Coburn	`± 40 22	3 28714110					
4. Programme Director(s)	First name	Markus	AUJIII.UC	Phone Last name	Velten						
	Board Certification(s EACTAIC membership		Anaesthesiology, Int Yes	ensiv care medicin, Emergency medici If yes, membership's number	n, Pain me	dicin 443510					
	Email	markus.velten@	ukbonn.de		Phone	`+49 228 287 14114					
		Klinik für Anästh Universitätsklini	esiologie und operat kum Bonn	ive Intensivmedizin,							
	Mailing Address	Street	Venusberg-Campus	1	Fax						
		Country Zip code	Germany 53127	Region		Bonn					
Will the Programme director devote		vide substantial le	adership to the progr	ramme and supervision for the fellows	:?						
Will the Programme director review	Yes the fellows' clinical exp	perience logs at le	ast quarterly and veril	y completeness and accuracy?							
	Yes										
Does the national/international regu	latory authority(s) rec Yes	If yes, please	Due to the close the	oretical and practical similarities of th	e EACTAIC	fellowship program and the DGAI (German Anesthe	sia Society) d	efinition of an "anesthesiologist experienced in cardioanesthesia", such a certificate is		
Completion of the programme	e acknowledged b	explain	also issued to the fe	llow by the hosting center							
completion of the programme will b	e acknowledged by th Yes	e Department of A	randes unesta and Inter	isive care at the nost centre in junctio	with Eur	opean Association of Cardiothorac	ic Aridestnesiolo	_B y and intens	ive Care (EACTAIC) Candidate's requirements		
5. Candidate's requirements		_									
The candidates must be board certif	ied or board eligible a Yes	ccording to Europ	ean residency progra	mme standards							
Language requirements	C1	Comments		requests an individual language test e							
Specific requirements towards the a	ttending fellow			ve the German Board Certification (Apoption to apply for a temporary allowa			eir resideny train	ing. "Aprobat	ion" is the Geman licence for practicing medicine. If a candidate is Board certified from		
6. General Programme Information											
Aims, goals and objectives of the Fe The Aims, goals and objectives of the		re following the ou	ublished EACTA Guidl	ines in the most recent version. We wi	ill train nor	n-specialist anaesthesiologists who	have finished th	eir residency	training to become proficient in cardiothoracic anaesthesia. The fellows will have the		
opportunity to gain extensive experie											
	* Of note the total	eriod should t	stemunted by ferrores	for prolonged periods of	disdrin / *	soutment:					
Preferred Programme Training	* Of note, the training po	March	1	or prolonged periods of secondment to other of	visions / de	February	28				
Number of Positions Per Year If clinical, will the fellows be allowed to	2 n work with the eat		hip training available			Clinical / Clinical Research					
If clinical, will the fellows be allowed to Comments	work with the patien	under supervis	nort			Yes					
Offered Advanced Training			Yes								
Name	EACTAIC member	Certification in Cardiothoracic	Additional Qualifications	Email address				С	ontact address		
		and Vascular Anaesthesia									
Programm Director, Markus Velten	Yes	no	CCM, TOE	Markus.Velten@ukbonn.de		e mentioned postal adress					
Faculty Member, Se Chan Kim Faculty Member, Marc Rohner	Yes Yes	no no	CCM, TOE CCM, TOE	Se-Chan.Kim@ukbonn.de Marc.Rohner@ukbonn.de		e mentioned postal adress e mentioned postal adress					
Faculty Member, Ehrenfried Schindler	Yes	no	CCM, TOE	ehrenfried.schindler@ukbonn.de		e mentioned postal adress					
Publications lists of the faculty's me Attached list of publications	embers in PubMed										
	Check if each of the fo	llowing is available	at the host centre.								
Resources Total cardiothoracic and vascular ward by	arte			Yes / No Yes		Days in week	Numl 61				
Number of ICU beds dedicated to CTV pa				Yes Yes		7	12				
Is there an emergency department in white				Yes Yes		7	1				
An adequately designed and equipped properating room suite?				Tes		'	1				
Is there monitoring and advanced life sup Hybrid Operating Rooms	port equipment represen	tative of current leve	els of technology?	Yes Yes		7	1				
Cardiac Operating Rooms				Yes Yes		7	3				
Thoracic Operating Rooms				Yes		7	1				
Vascular Operating Rooms Catheterisation Labs				Yes Yes		7	4				
Electrophysiology Labs				Yes		7	1				
Pulmonology Labs Interventional Vascular Suits				Yes Yes		7	1				
Separate CVICU Facility				Yes		7					
Animal Laboratory for research purposes Outpatient Clinic for perioperative evalua		ng cardiothoracic an	d vascular procedures	Yes Yes		7	3				
24-hours acute pain service available for				Yes		7					
Meeting Rooms Classrooms with visual and other educat	ional aids			Yes Yes		7					
Study areas for fellows				Yes		7					
Office space for faculty members and fell Diagnostic facilities	ows			Yes Yes		7					
Therapeutic facilities				Yes		7					
24-hour laboratory services available in t Cardiac stress testing	he hospital			Yes Yes		7					
Cardiopulmonary scanning procedures				Yes Yes		7					
Pulmonary function testing Computers and IT support				Yes Yes		7					
Computers and IT support Appropriate on-call facilities for men and	women			Yes Yes		7					
O Chaladelan									•		
 Clinical Skills and Responsibilities Will your Programme offer a 12-24 m 		ducation in funda	mental clinical skills o	of medicine relevant to the practice of	CTVA?				W		
				ne month) during the 12-24 month		ition in fundamental clinical skills	i.		Yes		

Carleg for inpatients in

Cardiac Supery without CPB

Cardiac Supery without CPB

300

Minimally-Invasive Cardiac Peachurs

Interventional Cardiac Cathetest zation (e.g. TAVI, Minaclip, TRCDip, PFO /ASD closure)

Electrophysiology Lab de.g. mapping, ablation, pacemaken, ICOs)

700

Robotic Cardiac Surgery Heart, Lung, and Heart/Lung Transplants					0											
ECLS, ECMO, VAD Procedures					150											
Echocardiography Lab					2000											
Thoracoscopic Surgery Pulmonary Resection				700 150												
Oesophageal Surgery					50											
Tracheo-Bronchial Surgery					50											
Interventional Pulmonology Procedures					150											
Major Vascular Procedures					250 200											
Interventional vascular procedures Neurological monitoring during major vascular surgery					250											
Acute and chronic pain mangement servi				18	800 / 1500											
Basic or Advanced Research					both											
Rotaions in				Number of perform	ned produces/basic rotations	Number	of performed produces/advanced rotation 100	ns								
Cardiac anaesthesia Thoracic anaesthesia					50		50									
Anaesthesia for major supra-inguinal vas	cular procedures				50		50									
Trans-esophageal and trans-thoracic ech					100		100									
Medical or surgical Critical Care Rotation				1 m	onth rotation		3-6 month cardiac ICU rotation									
Inpatient or outpatient cardiology																
Inpatient or outpatient pulmonary medicin					80		80									
Extracorporeal perfusion technology (CPE Paediatric cardiothoracic anaesthesia	B, ECMO, Nova-Lung.)				0		80									
Basic Research				Every Fellow is strongly supported b	by the hosting center in participating in	Every Fellow is stro	ngly supported by the hosting center in									
				ongoing research projects		participating in ong	oing research projects									
Clinical Research					by the hosting center in participating in		ngly supported by the hosting center in									
				ongoing research projects		participating in ong	going research projects									
Will all fellows entering the CTVA Pro	ogramme complete eac	h of the fundame	ental clinical skills of re	quirements?												
If no, explain	Yes															
In the clinical anaesthesia setting, in	cluding nights and we	ekends, will facult	y members at any time	direct perioperative CTVA care, invo	lving fellows, for more than two anaestheti	ing locations simulta	neously?									
If Yes, describe					uring the education of fellows. Since there a			inscribed above are f	ully met.							
ii res, describe	A minimum one racu	, member is pres	one and not directly if	.vo.veu iii one to one patient care di	and the education of reliows. Since there a	ic two relions at maxi	simultamously, the requirements d	outribed above are f	ony IIIEL							
Clinical Responsibility					stable professional activities. So after onbo											
					ill become more complex. However, durung ology, Cardiology, and Cardiac Surgery.	the entire programm	they will alswas be a certified consultant	ın call distance availa	able it needed. The fellows take par							
				case conferences, wich are held mor												
List any other rotations (along with	their duration, in mon	ths) offered in the	e Programme to augm	ent fellows' learning.												
					cal resposnsibility for the hybrid operating	theatre (interventiona	cardiology: TAVR, mitral- and tricuspid v	ralve interventions)								
Will advanced subspecialty rotation:							Yes									
Maximum Time in Non-Clinical Activ		ponsibility and lea	arning opportunities :		4 h per week (mostly parti	ipating in student tea										
10. Financial Statement					, , , , , , , , , , , , , , , , , , , ,	,	. 0/									
An employment contract will be sign	ned with the candidate		Yes													
Accommodation options are provide			No													
Transportation/travel options are pr			Yes	-												
Monthly Salary	Amount	min. 6.178,49 No	Currency	€			Host centre (monthly sal	and								
This opportunity is not funded by the	he centre	NO		ipport for the candidate:			nost cerue (monuny sa	241								
11. Educational and Academic Prog	ramme		Others						This opportunity is not funded by the centre No Source of financial support for the candidate: Host centre (monthly salary) Others							
Didactic Sessions	51 dillille															
				Yes												
Didactic Sessions Will faculty members' attendance be Will fellows' attendance be monitore	e monitored? ed?			Yes												
Didactic Sessions Will faculty members' attendance be Will fellows' attendance be monitore Will attendance be mandatory for fa	e monitored? ed? aculty members?			Yes Yes												
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Didactic Sessions Will faculty members' attendance be Will fellows' attendance be monitor Will attendance be mandatory for fa Will attendance be mandatory for for for the following will provide co	e monitored? ed? aculty members? ellows? ontent at conferences?	P Check all that ap	ply.	Yes Yes												
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Didactic Sessions Will faculty members' attendance be Will faculty members' attendance be Will fellows' attendance be monitor Will attendance be mandatory for fe Who of the following will provide co Anaesthesiology faculty members for Anaesthesiology faculty members for Non-anaesthesiologists from the pr Non-anaesthesiologists from the pr Visiting faculty members Drugfindustry representatives Fellows Others (specify): Click here to enter What will be the frequency of the fo Critical care appraisal of the literature (i.e., journal dub)	emonitored? ed? ed? cutly members? cutly members? close? content at conferences; on this department on other sites imary clinical site urticipating sites text. text. Weekly Yes No	pics in the progra Bi-weekly Yes No		Yes	Quarterly No No	No No	No No		monitored Yes No							
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catecholamine therapy, invasive and nonimositive ventilation, enteral and parenteral nutrition, and renal replacement procedures will be mastered on his/her own. The independent care of patients under veno-arterial and veno-venous extracorporeal membrane oxygenation and passive and implanted cardiac assist devices is of particular importance in the training.		Clinical skills evaluation and reechack. Monthly to quarterly Asessment of the fellow by programm director and faculty
As well as intraoperatively, an independent assessment of the patient's cardiac function can be performed by using TOE.		
1. II.Echocardiography - Clinical part		
professional societies. He/she is able to collect normal findings as well as pathological findings	Mandatory participation in both basic and advanced TOE course Daily routine in OR Daily supervision	Clinical skills evaluation and feedback TOE Exame of The German Society of Anaesthesiology and Intensive Care Medicine
1. VIII. Extracorporeal perfusion management		
cardiopulmonary bypass. Understand the various forms of CPB performed at the center. The		Clinical skills evaluation and feedback Monthly to quarterly Asessment of the fellow by programm director and faculty

Medical Knowledge
Fellows are encouraged to actively participate in the weekly training seminars. They are also encouraged to present their own research results at national and international congresses. For this purpose, the fellows are given appropriate time off. The evaluation takes place in a personal conversation with the programme director.

conversation with the programme director.		
Area of Knowledge	Settings/ Activities	Assessment Method(s)
1. Basic Training		
1.I. General patient assessment and risk estimation (Level A)		In the fill of the
Physiology of the heart, the circulatory system and the respiratory system. Basic knowledge of embryological development of cardiac, thoracic and vascular structures. Pre-operative invasive and non-invasive assessment of cardiac diseases and interpretation of results	Self-studies and mandatory institutional lectures	Asessment of the fellow during daily working routine in OR Clinical skills evaluation and feedback
Pre-Oper ative invasive aim intrinvasive assessment to cardiact biseases are interpretation or results including electrocardiogram (ECA), chest Xray, echo-cardiography, cardiac stress testing, coronary angiography, cardiac magnetic resonance imaging (MRI), and computer tomography (CT).	Regulary participation in pre-operative patient screening and assesment	Linical skiis evaluation and reedback
Pre-operative pulmonary evaluation and interpretation of the results, including arterial blood gas and acid-base analysis, pulmonary function tests, oximetry and thoracic imaging.	Regulary participation in pre-operative patient screening and assesment	Clinical skills evaluation and feedback
Patient information and informed consent including medico-legal aspects, appraisal of discernment and consent capacity.	Regulary participation in pre-operative patient screening and assesment	Clinical skills evaluation and feedback
Principles of risk and outcome assessment and relevant scoring systems (e.g., EuroSCORE).	Participation in weekly interdsciplinary case conferences	Monthly to quarterly Asessment of the fellow by programm director and faculty
I. II. Anesthesia management – cardiac surgery (Level A) Knowledge of anesthetic agents and their effects on cardiac function and in patients with cardiac diseases.		Television of the control of the con
	Self-studies and mandatory institutional lectures	Clinical skills evaluation and feedback
Principles of intraoperative pharmacology and relevant medication, including positive inotropes, chronotropes, vasoconstrictors, vasodilators, and anti-arrhythmic agents.	Self-studies and mandatory institutional lectures	Clinical skills evaluation and feedback Monthly to quarterly Asessment of the fellow by programm director and faculty
Principles of patient blood management, including specific diagnostic tools, application of relevant medication and blood products.	Self-studies and mandatory institutional lectures	Clinical skills evaluation and feedback Monthly to quarterly Asessment of the fellow by programm director and faculty
Principles of basic hemodynamic monitoring and relevant techniques, such as arterial pressure measurement, central venous pressure.	Self-studies and mandatory institutional lectures	Clinical skills evaluation and feedback Monthly to quarterly Asessment of the fellow by programm director and faculty
Principles of relevant neuromonitoring techniques (e.g., processed electro-encephalography (pEEG), near- infrared sonography (NRS), somato-sensible evoked potentials (SSEP), motor evoked potentials (MEP).	Self-studies and mandatory institutional lectures	Clinical skills evaluation and feedback Monthly to quarterly Asessment of the fellow by programm director and faculty
Principles of conventional cardiopulmonary bypass techniques. Principles of myocardial preservation. Effects of cardiopulmonary bypass on human physiology, organ function, and pharmacology.	Self-studies and mandatory institutional lectures	Clinical skills evaluation and feedback Monthly to quarterly Asessment of the fellow by programm director and faculty
Basic principles of common procedures in cardiac surgery, such as coronary artery bypass grafting (CABG).	Self-studies and mandatory institutional lectures	Clinical skills evaluation and feedback Monthly to quarterly Asessment of the fellow by programm director and faculty
1. III. Anesthesia management – thoracic surgery (Level A)		
Principles of pulmonary evaluation as described previously, and basic knowledge in the interpretation of results from pulmonary function tests, lung perfusion testing and CT.	Self-studies and mandatory institutional lectures Fellows performing pulmonary function tests on cardiothoracic patients during preoperativ patient screening and assessment	Clinical skills evaluation and feedback
Knowledge of the bronchial anatomy.	Self-studies and mandatory institutional lectures	Clinical skills evaluation and feedback Monthly to quarterly Asessment of the fellow by programm director and faculty
Knowledge about relevant anesthetic agents and their effects in patients with lung diseases.	Self-studies and mandatory institutional lectures	Clinical skills evaluation and feedback Monthly to quarterly Asessment of the fellow by programm director and faculty
Principles of intraoperative pharmacology and relevant medication, including bronchodilators and steroids.	Self-studies and mandatory institutional lectures	Clinical skills evaluation and feedback Monthly to quarterly Asessment of the fellow by programm director and faculty
Basic principles of common procedures in thoracic surgery (mediastinoscopy, video-assisted thoracoscopic surgery (VATS), open lung resection, pneumonectomy).	Self-studies and mandatory institutional lectures Bed-side teaching in OR	Clinical skills evaluation and feedback Monthly to quarterly Asessment of the fellow by programm director and faculty
Basic principles of endoscopic pulmonary procedures, such as bronchial stenting and endoscopic lung volume reduction (ELVR).	Self-studies and mandatory institutional lectures Bed-side teaching in OR	Clinical skills evaluation and feedback Monthly to quarterly Asessment of the fellow by programm director and faculty
IV. Anesthesia management – major vascular surgery (Level A) Knowledge of peri-operative management for vascular patients undergoing vascular interventions, including	Calf studies and manufators institutional last uses	Clinical skills evaluation and feedback
anesthetic choices, perioperative monitoring, and risk identification.	Self-studies and mandatory institutional lectures Bed-side teaching in OR	Monthly to quarterly Asessment of the fellow by programm director and faculty
Basic principles of the peri-operative management of lumbar drainage for aortic interventional procedures.	Self-studies and mandatory institutional lectures Bed-side teaching in OR	Clinical skills evaluation and feedback Monthly to quarterly Asessment of the fellow by programm director and faculty
Basic principles of spinal cord protection during surgical and interventional aortic procedures.	Self-studies and mandatory institutional lectures Bed-side teaching in OR	Clinical skills evaluation and feedback Monthly to quarterly Asessment of the fellow by programm director and faculty
Basic principles of neuromonitoring.	Self-studies and mandatory institutional lectures Bed-side teaching in OR	Clinical skills evaluation and feedback Monthly to quarterly Asessment of the fellow by programm director and faculty
1. V. Post-operative care/ Critical care (Level A)		
Scoring systems in the ICU (e.g. the Sequential Organ Failure Assessment (SOFA), the Simplified Acute Physiology Score (SAPS), the Confusion Assessment Method (CAM)-ICU).	Self-studies and mandatory institutional lectures Bed-site eaching on ICU	Clinical skills evaluation and feedback Monthly to quarterly assessment of the fellow by programm director and / or faculty
Etiology, pathophysiology, diagnosis and treatment plans / bundles according to international standards for specific critical conditions in cardiothoracic and vascular surgery patients.	Self-studies and mandatory institutional lectures Bed-site eaching on ICU	Clinical skills evaluation and feedback Monthly to quarterly asessment of the fellow by programm director and / or faculty
Circulatory failure (heart failure, shock, cardiorespiratory arrest, cardiac arrhythmias, ischemic heart disease, pulmonary embolism, bleeding complications, vasoplegia).	Self-studies and mandatory institutional lectures Bed-site eaching on ICU	Clinical skills evaluation and feedback Monthly to quarterly asessment of the fellow by programm director and / or faculty
Anaphylaxis.	Self-studies and mandatory institutional lectures Bed-site eaching on ICU	Clinical skills evaluation and feedback Monthly to quarterly asessment of the fellow by programm director and / or faculty
Respiratory failure, including adult respiratory distress syndrome (ARDS), pulmonary edema, pneumothorax, pneumonia.	Self-studies and mandatory institutional lectures Bed-site eaching on ICU	Clinical skills evaluation and feedback Monthly to quarterly asessment of the fellow by programm director and / or faculty
Acute kidney injury and failure.	Self-studies and mandatory institutional lectures Bed-site eaching on ICU	Clinical skills evaluation and feedback Monthly to quarterly asessment of the fellow by programm director and / or faculty
Gastrointestinal failure, peritonitis, pancreatitis, liver failure, non-occlusive mesenteric ischemia (NOMI).	Self-studies and mandatory institutional lectures Bed-site eaching on ICU	Clinical skills evaluation and feedback Monthly to quarterly asessment of the fellow by programm director and / or faculty
Neurological failure (delirium and coma, cerebral ischemia and bleeding).	Self-studies and mandatory institutional lectures Bed-site eaching on ICU	Clinical skills evaluation and feedback Monthly to quarterly assesment of the fellow by programm director and / or faculty
Airway and chest Injuries.	Self-studies and mandatory institutional lectures Bed-site eaching on ICU	Clinical skills evaluation and feedback Monthly to quarterly asessment of the fellow by programm director and / or faculty
Aortic injuries.	Self-studies and mandatory institutional lectures Bed-site eaching on ICU	Clinical skills evaluation and feedback Monthly to quarterly assesment of the fellow by programm director and / or faculty
Infectious diseases (systemic inflammatory response syndrome (SIRS) and sepsis, including sepsis bundle strategy).	Self-studies and mandatory institutional lectures Bed-site eaching on ICU	Clinical skills evaluation and feedback Monthly to quarterly asessment of the fellow by programm director and / or faculty
Coagulation disorders (disseminated intravascular coagulopathy (DIC), heparin resistance, heparin-induced thrombocytopenia, severe bleeding, transfusion reaction).	Self-studies and mandatory institutional lectures Bed-site eaching on ICU	Clinical skills evaluation and feedback Monthly to quarterly asessment of the fellow by programm director and / or faculty
Equipment and apparatus (equipment design, physics, standards, limitations; e.g. non-invasive and invasive postoperative ventilation, continuous renal replacement therapy devices, non-invasive and invasive hemodynamic monitoring).	Self-studies and mandatory institutional lectures Bed-site eaching on ICU	Clinical skills evaluation and feedback Monthly to quarterly asessment of the fellow by programm director and / or faculty

Indication, contraindication, drug selection, complications: sedation, anesthesia, analgesia, neuromuscular relaxation, nutrition.	Self-studies and mandatory institutional lectures Bed-site eaching on ICU	Clinical skills evaluation and feedback Monthly to quarterly asessment of the fellow by programm director and / or faculty
Multimodal and pre-emptive analgesia concepts.	Self-studies and mandatory institutional lectures Bed-site eaching on ICU	Clinical skills evaluation and feedback Monthly to quarterly asessment of the fellow by programm director and / or faculty
Weaning and extubation criteria.	Self-studies and mandatory institutional lectures Bed-site eaching on ICU	Clinical skills evaluation and feedback Monthly to quarterly assesment of the fellow by programm director and / or faculty
Transfer and discharge criteria.	Self-studies and mandatory institutional lectures	Clinical skills evaluation and feedback
Indications for and application of extracorporeal circulation in intensive care patients for cardiac and / or resoiratory support (e.g., ECMO).	Bed-site eaching on ICU Self-studies and mandatory institutional lectures	Monthly to quarterly asessment of the fellow by programm director and / or faculty Clinical skills evaluation and feedback
VI. Basic peri-operative echocardiography (Level A)	Bed-site eaching on ICU	Monthly to quarterly asessment of the fellow by programm director and / or faculty
Principles of basic theory of peri-operative cardiac educardiography according to the European Association of Cardiovascular Imaging (EACVI) / EACTAIC process of certification for TEE. 1. VII. Anesthesia management – interventional procedures in cardiology (Level A)	Mandatory participation in both basic and advanced TOE course Daily routine in OR Daily supervision	Clinical skills evaluation and feedback TOE Exame of The German Society of Anaesthesiology and Intensive Care Medicine
Basic principles of common procedures in interventional cardiology, such as coronary angiography, ablation,	Self-studies and mandatory institutional lectures	Clinical skills evaluation and feedback
transcatheter aortic valve replacement (TAVR), and mitral / tricuspid clipping with relevant complications. Procedural sedation guidelines from the European Board of Anaesthesiology (EBA)/ European Society of	Bed-side teaching in OR Self-studies and mandatory institutional lectures	Monthly to quarterly asessment of the fellow by programm director and / or faculty Clinical skills evaluation and feedback
Anaesthesiology (ESA).	Bed-side teaching in OR	Monthly to quarterly assessment of the fellow by programm director and / or faculty
Monitoring and capnography use according to the safety recommendations from EBA. 1. VIII. Extracorporeal perfusion management (Level A)	Self-studies and mandatory institutional lectures Bed-side teaching in OR	Clinical skills evaluation and feedback Monthly to quarterly asessment of the fellow by programm director and / or faculty
Basic principles of extracorporeal perfusion.	Self-studies and mandatory institutional lectures Bed-side teaching in OR	Clinical skills evaluation and feedback Monthly to quarterly assesment of the fellow by programm director and / or faculty
Types of extracorporeal circuits, e.g., cardiopulmonary bypass (CPB), extracorporeal membrane oxygenation (ECMO).	Self-studies and mandatory institutional lectures	Clinical skills evaluation and feedback
Types, composition and mechanisms of cardioplegic solutions.	Bed-side teaching in OR Self-studies and mandatory institutional lectures	Monthly to quarterly assessment of the fellow by programm director and / or faculty Clinical skills evaluation and feedback
Cardioprotective measures.	Bed-side teaching in OR Self-studies and mandatory institutional lectures	Monthly to quarterly asessment of the fellow by programm director and / or faculty Clinical skills evaluation and feedback
Safety recommendations for extracorporeal circulation from the European Board of Cardiovascular Perfusion	Bed-side teaching in OR Self-studies and mandatory institutional lectures	Monthly to quarterly asessment of the fellow by programm director and / or faculty Clinical skills evaluation and feedback
(EBCP). 2. Advanced training	Reduside teaching in OR	Monthly to quarterly assessment of the fellow by programm director and / or faculty
2. I. Anesthesia management – cardiac surgery (Level A)		
Principles of advanced hemodynamic monitoring and relevant techniques, such as use of the pulmonary artery catheter, continuous cardiac output monitoring and measurement.	Self-studies and mandatory institutional lectures Bed-side teaching in OR	Clinical skills evaluation and feedback Monthly to quarterly asessment of the fellow by programm director and / or faculty
Principles of modified cardiopulmonary bypass (minimized CPB, left-heart CPB) and the off-pump revascularization technique.	Self-studies and mandatory institutional lectures Bed-side teaching in OR	Clinical skills evaluation and feedback Monthly to quarterly asessment of the fellow by programm director and / or faculty
Principles of advanced procedures in cardiac surgery and clinical management of affected patients (valve surgery and thoracic aortic surgery, including ascending, transverse, and descending aortic surgery with	Self-studies and mandatory institutional lectures Bed-side teaching in OR	Clinical skills evaluation and feedback Monthly to quarterly asessment of the fellow by programm director and / or faculty
circulatory arrest). Principles and state of the art of mechanical support including intra-aortic balloon pumps, and extracorporeal membrane oxygenation.	Self-studies and mandatory institutional lectures Bed-side teaching in OR	Clinical skills evaluation and feedback Monthly to quarterly asessment of the fellow by programm director and / or faculty
Current state of temporary and long-term mechanical circulatory support (ventricular assist devices, total	Self-studies and mandatory institutional lectures	Monthly to quartery asessment or the reliow by programm director and / or faculty Clinical skills evaluation and feedback
artifidal hearts).	Bed-side teaching in OR	Monthly to quarterly assessment of the fellow by programm director and / or faculty
Principles of use of inhaled pulmonary vasodilators (nitric oxide (NO), prostaglandins).	Self-studies and mandatory institutional lectures Bed-side teaching in OR	Clinical skills evaluation and feedback Monthly to quarterly assssment of the fellow by programm director and / or faculty
Principles of fast-track surgery.	Self-studies and mandatory institutional lectures Bed-side teaching in OR	Clinical skills evaluation and feedback Monthly to quarterly asessment of the fellow by programm director and / or faculty
2.II. Anesthesia management – thoracic surgery (Level A)		
Principles of common procedures in thoracic surgery (open and thoracocopic lung resections, robotic lung resection, lung volume reduction surgery, mediastinoscopy, pneumonectomy).	Self-studies and mandatory institutional lectures Bed-side teaching in OR	Clinical skills evaluation and feedback Monthly to quarterly asessment of the fellow by programm director and / or faculty
lavage; endoscopic, rigid fiber optic and laser resection; bronchial stenting and sealing).	Self-studies and mandatory institutional lectures Bed-side teaching in OR	Clinical skills evaluation and feedback Monthly to quarterly asessment of the fellow by programm director and / or faculty
Principles of peri-operative management of esophageal surgery for varices, neoplastic, colon interposition, foreign body, stricture, and tracheoesophageal fistula.	Self-studies and mandatory institutional lectures Bed-side teaching in OR	Clinical skills evaluation and feedback Monthly to quarterly asessment of the fellow by programm director and / or faculty
III. Anesthesia management – major vascular surgery (Level A) Knowledge of perioperative management of TEVAR and EVAR.	Self-studies and mandatory institutional lectures	Clinical skills evaluation and feedback
Knowledge of the principles of perioperative management of lumbar drainage for aortic interventional	Bed-side teaching in OR Self-studies and mandatory institutional lectures	Monthly to quarterly asessment of the fellow by programm director and / or faculty Clinical skills evaluation and feedback
procedures.	Bed-side teaching in OR	Monthly to quarterly assssment of the fellow by programm director and / or faculty
Excellent knowledge of the principles of spinal cord protection during surgical and interventional aortic procedures.	Self-studies and mandatory institutional lectures Bed-side teaching in OR	Clinical skills evaluation and feedback Monthly to quarterly asessment of the fellow by programm director and / or faculty
Excellent knowledge of the principles of cerebral function monitoring.	Self-studies and mandatory institutional lectures Bed-side teaching in OR	Clinical skills evaluation and feedback Monthly to quarterly asessment of the fellow by programm director and / or faculty
IV. Post-operative management/ Critical care (Level A) Knowledge of cardiac and thoracic physiology.	Self-studies and mandatory institutional lectures	Clinical skills evaluation and feedback
	Bed-side teaching in OR	Monthly to quarterly assessment of the fellow by programm director and / or faculty
Postoperative cardiac critical care, including analgesia, sedation and vertilation. Postoperative care and analgesia after thoracic surgery.	Self-studies and mandatory institutional lectures Bed-side teaching in OR	Clinical skills evaluation and feedback Monthly to quarterly assssment of the fellow by programm director and /or faculty
	Self-studies and mandatory institutional lectures Bed-side teaching in OR	Clinical skills evaluation and feedback Monthly to quarterly asessment of the fellow by programm director and / or faculty
An understanding of the management of cardiac pacing modes.	Self-studies and mandatory institutional lectures Bed-side teaching in OR	Clinical skills evaluation and feedback Monthly to quarterly asessment of the fellow by programm director and / or faculty
An understanding of extracorporeal membrane oxygenation and other devices used for mechanical circulatory support.	Self-studies and mandatory institutional lectures Bed-side teaching in OR	Clinical skills evaluation and feedback Monthly to quarterly asessment of the fellow by programm director and / or faculty
VII. Advanced perioperative echocardiography (Level A)	-	
Advanced level of knowledge in peri-operative cardiac echocardiography according to the EACVI/ EACTAIC process of certification guidelines.	Mandatory participation in both basic and advanced TOE course Daily routine in OR	Clinical skills evaluation and feedback TOE Exame of The German Society of Anaesthesiology and Intensive Care Medicine
VIII. Heart and/or lung transplantation (Level A) Understanding of the physiology and clinical presentations of end-stage heart and lung disease and surgical	Self-studies and mandatory institutional lectures	Monthly to quarterly assesment of the fellow by programm director and / or faculty
options for their management. Understanding of the principles of heart transplantation and dinical management of affected patients.		
on the principles of near stransplantation and clinical management of affected patients.	Self-studies and mandatory institutional lectures	Monthly to quarterly asessment of the fellow by programm director and / or faculty
Knowledge of current limitations of organ transplantation and efforts to increase the suitable donor pool.	Self-studies and mandatory institutional lectures	Monthly to quarterly asessment of the fellow by programm director and / or faculty
Understanding of the multidisciplinary nature of patient evaluation and listing for transplantation.	Self-studies and mandatory institutional lectures	Monthly to quarterly assessment of the fellow by programm director and / or faculty
Knowledge of the principles of donor optimization, management and allograft retrieval.	Self-studies and mandatory institutional lectures	Monthly to quarterly assessment of the fellow by programm director and / or faculty
Knowledge of the principles of ex-vivo heart and lung perfusion.	Self-studies and mandatory institutional lectures	Monthly to quarterly assssment of the fellow by programm director and / or faculty
Understanding of the physiology of the denervated organ.	Self-studies and mandatory institutional lectures	Monthly to quarterly assessment of the fellow by programm director and / or faculty
Understanding of the surgical conduct of heart transplantation and knowledge of intra-operative and immediate postoperative care, including stability of induction, ventilation, oxygenation, hemodynamic	Self-studies and mandatory institutional lectures	Monthly to quarterly assessment of the fellow by programm director and / or faculty
support, and allograft and noncardiac organ protection. Understanding of primary graft dysfunction and indications for mechanical circulatory support.	Self-studies and mandatory institutional lectures	Monthly to quarterly assessment of the fellow by programm director and / or faculty
Understanding of the surgical options for lung transplantation, including minimally invasive lung transplantation and various intraoperative extracorporeal support mechanisms.	Self-studies and mandatory institutional lectures	Monthly to quarterly assessment of the fellow by programm director and / or faculty
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delivery, hemodynamic support, indications for inhaled NO and c non-pulmonary organ protection.		Self-studies and mandatory institutional lectures	Monthly to quarterly asessment of the fellow by programm director and / or faculty								
	other pulmonary vasodilators, allograft and										
Knowledge of the principles of primary lung dysfunction and con- options, including indications for and techniques of ECMO.	nservative and extracorporeal treatment	Self-studies and mandatory institutional lectures	Monthly to quarterly assssment of the fellow by programm director and / or faculty								
options, including indications for and techniques of ecisio.											
Understanding of immunosuppressive regimens and the role of p	postoperative infections and sepsis.	Self-studies and mandatory institutional lectures	Monthly to quarterly asessment of the fellow by programm director and / or faculty								
2. IX. Research module (Level A)											
Principles of clinical trials, including design, end points, inclusion	/ exclusion criteria, reporting requirements	Self-studies and mandatory institutional lectures	Monthly held scientific meetings of the centers various working groups								
Understanding of Good Clinical Practice (GCP) requirements for co	clinical research involving patients.	Self-studies and mandatory institutional lectures	Monthly held scientific meetings of the centers various working groups								
Understanding of European and specific national ethics framewo		Self-studies and mandatory institutional lectures	Monthly held scientific meetings of the centers various working groups								
clinical regulatory frameworks and hospital site-specific assessm	nent.										
Principles of sample size and study power determinations and ba	acia statistical qualuation	Self-studies and mandatory institutional lectures	Monthly held scientific meetings of the centers various working groups								
Filliuples of sample size and study power determinations and be	asic statistical evaluation	Sen-studies and mandatory institutional rectures	wonthly held scientific meetings of the centers various working groups								
Principles of patient and data confidentiality agreements.		Self-studies and mandatory institutional lectures	Monthly held scientific meetings of the centers various working groups								
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Understanding tools for data collection, analysis and reporting.		Self-studies and mandatory institutional lectures	Monthly held scientific meetings of the centers various working groups								
Principal international basic science priorities in the field of card	diac anesthesia.	Self-studies and mandatory institutional lectures	Monthly held scientific meetings of the centers various working groups								
Ethics and practicalities of biological sample collection, storage a	and biobanking	Self-studies and mandatory institutional lectures	Monthly held scientific meetings of the centers various working groups								
Principles and ethics of scientific publishing.		Self-studies and mandatory institutional lectures	Monthly held scientific meetings of the centers various working groups								
		Self Studies and manualory institutional rectares	monthly had scientific meetings of the ecities validas working groups								
Training programmes should encourage fellows to provid External evaluation / assessment will be held as per EACTA	Yes Clinical skills evaluation_0 Yes Clinical skills evaluation_10 Yes Self-asses ment the Yes Reports of Evaluation of the Yes The Yes Reports of Evaluation of the Yes The Y	uations Ves Ves Illows Ves Ves Ves Tes Ves Ver Tes Ves Ver Tes Ver Tes Ver Tes Ver Tes Ver Tes Ver Tes Tes Tes Tes Tes Tes Tes T	Yes Yes Yes Yes Yes Yes Yes								
		raicuty and program to the Excraic coucation chair diac, thoracic, and vascular anesthesia will be involved in continuing quality improvement and ris									
		nation and reassessment of the Fellowship training goals and objectives	Yes Yes								
		this should be reported immediately to the Chair of the Education Committee.	Yes								
At the end of the training period, the centre would acknow	owledge in writing successful completic	on of a fellow training.	Yes								
Practice-based Learning and Improvement Briefly describe the main learning activities regarding n	non-clinical skills and their assessment	during the fellowship									
			The department has access to a skills lab for simulation and interpersonal training. The Fellow will be encouraged to participate in simulation trainings.								
	fallow and the state of the sta										
Briefly describe one planned learning activity in which identified goals (life-long learning).	fellows engage to: identify strengths, d	eficiencies, and limits in their knowledge and expertise (self-reflection and self-assessment); set le	arning and improvement goals; and identify and perform appropriate learning activities to achieve self-								
identified goals (life-long learning). Due to the standardized procedures and high internal com	nparability of the anesthesiological and	surgical measures, it is possible to slowly and steadily introduce the candidate to a learning goal.	Step by step, additional tasks can be transferred to the responsibility of the fellow.								
identified goals (life-long learning). Due to the standardized procedures and high internal com Both the fellow and the trainer can notice individual impro	nparability of the anesthesiological and		Step by step, additional tasks can be transferred to the responsibility of the fellow.								
identified goals (life-long learning). Due to the standardized procedures and high internal com	nparability of the anesthesiological and	surgical measures, it is possible to slowly and steadily introduce the candidate to a learning goal.	Step by step, additional tasks can be transferred to the responsibility of the fellow.								
identified goals (life-long learning). Due to the standardized procedures and high internal com Both the fellow and the trainer can notice individual impro	nparability of the anesthesiological and	surgical measures, it is possible to slowly and steadily introduce the candidate to a learning goal.	Step by step, additional tasks can be transferred to the responsibility of the fellow.								
identified goals (life-long learning). Due to the standardized procedures and high internal com Both the fellow and the trainer can notice individual impro encourage the trainee to strive for further learning steps.	nparability of the anesthesiological and ovements through recurring procedures	surgical measures, it is possible to slowly and steadily introduce the candidate to a learning goal. The trainee is asked to retrospectively evaluate the individual learning stages and assess his or h	Step by step, additional tasks can be transferred to the responsibility of the fellow. er own progress. In a direct feedback session, the trainer will be able to take corrective action and								
identified goals (life-long learning). Due to the standardized procedures and high internal com Both the fellow and the trainer can notice individual impro encourage the trainee to strive for further learning steps.	nparability of the anesthesiological and ovements through recurring procedures	surgical measures, it is possible to slowly and steadily introduce the candidate to a learning goal. The trainee is asked to retrospectively evaluate the individual learning stages and assess his or h	Step by step, additional tasks can be transferred to the responsibility of the fellow.								
identified goals (life-long learning). Due to the standardized procedures and high internal com soft the fellow and the trainer can notice individual impro encourage the trainee to strive for further learning steps. 3. Briefly describe one planned quality improvement activ process.	nparability of the anesthesiological and verments through recurring procedures the state of the	surgical measures, it is possible to slowly and steadily introduce the candidate to a learning goal. The trainee is asked to retrospectively evaluate the individual learning stages and assess his or how the control of the control	Step by step, additional tasks can be transferred to the responsibility of the fellow. er own progress. In a direct feedback session, the trainer will be able to take corrective action and								
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In played to the department are contractually obligated to contribute up to 4 working hours per valuation effectively with patients and families across a broad range of socioeconomic and cultural and patients with patients and families across a broad range of socioeconomic and cultural and patients with patients and families across a broad range of socioeconomic and cultural and patients with patients and families across a broad range of socioeconomic and cultural as possible, of all the risks that patient will be submitted and the alternative treatments that may addition to the patients are patients.	Step by step, additional tasks can be transferred to the responsibility of the fellow. From progress. In a direct feedback session, the trainer will be able to take corrective action and provisions of faculty support and supervision that will guide this parent as a function of the surgical measures. 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uring OR rotations, the fellow will be asked to fill in the written operating summary and handover for cardiac cases. We work with a standardised electronic handover checklist following the SBAR concept. The intensive care unit documentation, as well as the anaesthesia protocol in the OR are sumputed by the PDMS, where hemodynamic measures as well as wentilator settings are being transferred automatically into the detectronic reports. Other data, such as medica-tion, fluids, lines, tubes and others have to be chosen out of a menu and confirmed manu-ally to get transferred into the exords. SBAR improves communication strategies and team performance, as well as team communication skills between doctors and nurses, which increases peatient safety, But It does require team training in use and other what what the fellow will learn

5. Briefly describe how fellows will maintain a comprehensive anaesthesia record for each patient, including evidence of pre- and post-operative anaesthesia assessment, an ongoing reflection of the drugs administered, the monitoring employed, the techniques used, the physiologic variations observed, the therapy provided as required, and the fluids administered.

The University has a comprehensive PDMS in the DR as well as on the ICU. We call ourselfs "paperless hospital" that means the fellow will learn a lot about clinical information systems including electronic anesthesia records, Echo data management, and even online patient informed consent

. Briefly describe how fellows will create and sustain a therapeutic relationship with patients, engage in active listening, provide information using appropriate language, ask clear questions, provide an opportunity for comments and questions, and demonstrate sensitivity and recording awareness of their own and their patients' cultural perspectives.

Percop anesthesia clinic, the fellow will always have to communicate with patients with different backgrounds.

uring the Operation, the fellow will be supervised while communicating with the surgeon, the perfusi ist and the nurses. Additionally the fellow will be asked to take activly part in the regular conferences and learn how to present patient records

15. Professionalism

Briefly describe the learning activity(ies), other than lecture, by which fellows demonstrate a commitment to carrying out professional responsibilities and an adherence to ethical principles, including compassion, integrity, and respect for others; responsiveness to patient needs that supersedes self-interest; respect for patient privacy and autonomy; accountability to patients, society, and the profession; and sensitivity and responsiveness to a diverse patient population, including to diversity in gender, age, culture, race, religion, disabilities, and sexual orientation

There is no dedicated programs were fellows can learn about a commitment to carry out professional responsibilities and an adherence to ethical principles, including compassion, integrity, and respect for others; responsiveness to patient needs that supersedes self-integrity privacy and autonomy. But the department has a written code of general orientation and the staff member will be tought about these basic principles. One can call that learning by guidance.

15. Systems-based Practice
1. Describe the learning activity(ies) through which fellows achieve competence in the elements of systems-based practice: working effectively in various health care delivery settings and systems, coordinating patient care within the health care system; incorporating

considerations of cost-containment and risk-benefit analysis in patient care; advocating for quality patient care and optimal patient care systems; and working in inter-professional teams to enhance patient safety and care quality
The fellow will plan and demonstrate a clinical case at the conference. So, he/she has to do a literature research first and use information technology for that.

Enther, the fellow has the opportunity to collaborate in clinical research or academic projects. The University has an own Depatment for patient safety, one could think of getting in touch with this department and let the fellow participate in a quality mangement programm. The fellow, as a mem
of the anaesthesiology team, should show competencies in working with the various health care delivery settings and systems, coordinating patient care within the health care system with paying attention to the cost-containment and risk-benefit analysis in patient care.

23/03/2022 or 30/03/2022 or 02/04/2022 or 02/04/2022 or 02/04/2022 or 02/04/2022 or 03/03/2022 or 03 Dates proposed for the visit (at least 3) I hereby accept the regulations of the Hospital Visiting

To be completed by the Head of dep nent or the authorised deputy



European Association of Cardiothoracic Anaesthesiology and Intensive Care

Che	ecklist for I	Hosting EACT	AIC Paediatric Cardiothoraci	c Anaesthe	sia Fellowship P	rogramme	9	
Institution	Name]	Dep. for Ane	sthesiology and Critical Care	e Medicine,	University of Bo	onn		
Address	Universitätsklinikum Bonn (UKB) Klinik für Anästhesiologie und operative Intensivmedizin (KAI) Venusberg-Campus 1 53127 Bonn							
Preferred I	Duration	⊠ 12 - 2	24 months					
Type of fell	lowship tr	aining avail	able:					
	Clinical on	ly						
	Clinical / B	asic Research						
\boxtimes	Clinical / C	Clinical Research	ch					
	Basic Rese	arch only						
	Clinical Re	search only						
Financial S	Statement							
** The fi	inancial sou	ırces policy sh	ould be declared by the host	centre.				
	should be		sus between the host centre ar	nd the traine	ee about the finan	cial statem	ent befor	
An ei	mployment	contract will	be signed with the candidate		⊠ Yes □ I	No		
Acco	mmodation	options are p	provided		□ Yes ⊠ 1	No		
Trans	portation/tra	avel options are	provided		⊠ Yes □ 1	No		
Montl	hly Salary:	Amount	min. 6.178,49	Currency	Euro			
			The centre does not fund this	opportunity	□ Y	es 🛭 N	10	
Source	ce of financ	cial support fo	r the candidate:					
	☐ Host ce	entre (monthly	salary)					
	☐ Candid	ate 's centre						
	☐ Scholar							
		ional grant						
	☐ Award							
	☐ Others	ate's expenses						
	□ Others	Click here to	enter text.					
Ple	ase, describ							
Programm	e Trainin	g and faciliti	es of the host centre					
			rovide direct patient care during th and faculty's members, "i.e. hands-o		ogramme under the	⊠ Yes	□ No	
2. Declarati	ion of financi	al recourses and	signed agreement between the host c	entre and trair	nee.	⊠ Yes	□ No	
		g for 12months.				⊠ Yes	□ No	
			visory authority should approve the	programme.		⊠ Yes	□ No	
5. The prog	gramme direct	tor should attain	sufficient time to do his responsibilit	ies.		⊠ Yes	□ No	

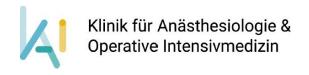


European Association of Cardiothoracic Anaesthesiology and Intensive Care

	If yes	, please de	fine		
		Click her	re to enter hours per day		
		10% of v	days per week		
			days per month		
6.			ty members should be involved.	⊠ Yes	□ No
7.			be done every four months.	⊠ Yes	□ No
8.			ok will be performed monthly and signed by the programme director	⊠ Yes	□ No
9.			es should have:	⊠ Yes	□ No
	9.1	Available	e adult ward beds for cardiothoracic and vascular patients.	⊠ Yes	□ No
	9. 2	Available	e PICU beds dedicated to cardiothoracic and vascular patients	⊠ Yes	□ No
	9.3	Is there a	n emergency department in which cardiothoracic patients are managed 24 hours a day?	⊠ Yes	□ No
	9. 4	Are adult	patients with CHD managed in the host centre?	⊠ Yes	□ No
	9.5	Is there technolog	monitoring and advanced life support equipment representative of current levels of gy?	⊠ Yes	□ No
	9.6		e an outpatient Clinic for perioperative evaluation of patients undergoing cardiothoracic and procedures	⊠ Yes	□ No
	9.7	24-hours	acute pain service available for patients undergoing different procedures	⊠ Yes	□ No
	9.8	Available	e Meeting Rooms	⊠ Yes	□ No
	9.9	Available	e classrooms with visual and other educational aids	⊠ Yes	□ No
	9. 10	Available	e study areas for fellows	⊠ Yes	□ No
	9. 11	The volu	me of cases. *		
		9. 5. 1	Minimum of 100 adult cardiac surgery per calendar year. (The majority with using the CPB)	⊠ Yes	□ No
		9. 5. 2	Minimum of 50 cardiac interventional procedures.	⊠ Yes	□ No
		9. 5. 3	Minimum 25 thoracic cases	⊠ Yes	□ No
		9. 5. 4	Minimum 25 vascular cases.	⊠ Yes	□ No
		9. 5. 5	Available simultaneous management of paediatrics with congenital heart disease (CHD).	⊠ Yes	□ No
		9. 5. 6	Accessibility for training in the electrophysiology procedures on adult patients.	⊠ Yes	□ No
		9. 5. 7	Accessibility for training in the dedicated adults intensive care unit for one month.	⊠ Yes	□ No
		9. 5. 8	Accessibility for training on the Extracorporeal perfusion or ECLS technology (CPB, ECMO)	⊠ Yes	□ No
		9. 5. 9	Accessibility for training on the basic and/or clinical research	⊠ Yes	□ No
Con	ision adition es, plea		Approve		

Please fill in all required fields and send them to eactaic@mci-group.com

EACTAIC Adult Cardiothoracic and Vascular Anaesthesia Fellowship Programme Department of Anesthesiologie and Intensive Care Medicin, University Hospital Bonn



Day of we	ek Monday	Tuesday	Wednesday	Thursday	Friday
Operation area					
Cardiothoracic OR 1	Conventional coronary bypass and valve surgery	Conventional coronary bypass and valve surgery	Conventional coronary bypass and valve surgery	Conventional coronary bypass and valve surgery	Conventional coronary bypass and valve surgery
Cardiothoracic OR 2	Off-pump bypass surgery (OPCAP, MIDCAB)	Off-pump bypass surgery (OPCAP, MIDCAB)	Off-pump bypass surgery (OPCAP, MIDCAB)	Off-pump bypass surgery (OPCAP, MIDCAB)	Off-pump bypass surgery (OPCAP, MIDCAB)
Cardiothoracic OR 3	Heart valve surgery	Heart valve surgery	GUCH surgery	Heart valve surgery	Heart valve surgery
Hybrid Operation Roo	Procedures (TAVR, MitraClip, Cardioband)	Interventional Valve Procedures (TAVR, MitraClip, Cardioband)	Interventional Valve Procedures (TAVR, MitraClip, Cardioband)	Interventional Vascular Surgery (EVAR, TEVAR)	Interventional Valve Procedures (TAVR, MitraClip, Cardioband)
Thoracic / Vascular Surgery Operation Theatre	Pulmonary surgery (VATS)	Vascular surgery	Vascular surgery	Visceral surgery (e.g. oesophageal surgery)	Pulmonary surgery (VATS)
Cardiothoracic ICU	7:00 interdisciplinary ICU round	7:00 interdisciplinary ICU round		7:00 interdisciplinary ICU round	7:00 interdisciplinary ICU round
Other		16:00 weekly interdisciplinary Converence	7:15 mandatory instiutional lectures	16:00 biweekly mandatory basic lectures	16:00 monthly interdisciplinary GUCH conference

This is an example of a weekly schedule during the fellow's cardiac anesthesia rotation period at the hosting center.

Each day our department provides anesthesia for 3 cardiac surgery operating rooms, one Hybrid OR and at least one vascular surgery and one pulmonary surgery operating room.